Original / Duplicate / Triplicate

CONTRACT CERTIFICATE

No. **3rd & part bill** (For Other Works) Date.....20.....

Division: Yelahanka Projects.
Bill Received No.....Dated.....Cash Book Voucher No.....dated.....
Scheduled Docket No.....

Name of Work: Package1 a Improvements to playgrounds at Thanisandra Village at Ward No 06 b Improvements to Suvarana Mahotsava Play Ground on Vidyaranyapura Main road at Ward No 09 c Improvements to playgrounds at Ward No 11 Kuvempunagarad Developmental Works to Play ground stadium in Ward No 05 Jakkur e Developmental works to Play ground Stadium Sahakaranagara Ward No 08 Kodigehalli.

Job Code No: 005-17-000026, 008-17-000046, 009-17-000044 & 011-17-000034 **Est. cost: 540.00 lakhs**

Name of Contractor and Full Address : Sri. Arun Kumar B.

Work Order No: EE(Project)/ Ynk Zone/WO/77/2017-18, Dated : 18-12-2017

Certified that the measurements were taken by me on 05/12/19 and recorded in pages 220209 to 220215 of measurement Book No 08/2018-19 and that the work is satisfactorily executed.

Contractor **Executive Engineer**
Officer in charge of work

Certified that the measurements were taken by me on 5/12/19 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of an imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

5/12/19
Sub-Division Officer
Asst. Executive Engineer
Project Division
Yelahanka Zone

If Memorandum of Payment

1) Total value of work done or supplies made as per account within	Total upto Bandobast	80,254 = W
2) Deduct amount to be held in reserve being.....percent Rs.....	Already paid	1,30,32,328 = W
3) Deduct amount to be held in Balance	Present bill	2,58,47,926 = W
4) Deduct Payment :	2% IT	5,16,958 = W
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D No.....	1% CESS	2,58,479 = W
Amount adjusted towards cash advance recovery of	1% CGST	2,30,785 = W
b) Payments cost store or other materials supplied.	1% SGST	2,30,785 = W
Now made recovery of amount creditable to this/other work	0.1% CBF	25,848 = W
Amount paid on this bill Cheque/Cash	LB	3,08,770 = W
5) Balance being unpaid value of work done held in reserve	T/D:	15,71,625 = W
6) Deduct cash advance made on the office Cash Book Voucher No..... date .....less adjustments	Payable :	2,42,76,301 = W
7) Net amount due to or from contractor		
Unadjusted items		
8) Advance to contractor for materials brought to site (as detailed) within value of Governme materials supplied		

Contractor's Signature

Received Rs.....(in words)
By Cash and by adjustment of Payment as per memorandum.
Witnesses :
1.
2.

Dated.....Signature of Contractor

Paid by me by cheque No.....Dated.....

Cash Rs.....Dated.....

(For use in the Office)
Audited & Admitted for Rs.....
Rs.2,58,47,926/-
.....
Rs.2,42,76,301/- by Cheque
and Rs.15,71,625/- by Adjustment

12/12
Accts. Supdt.
Project Division
B.B.M.P.

Exe. Engineer
Project Division
B.B.M.P
12/19

Initials of Officer Making Payment

Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Package1 a Improvements to playgrounds at Thanisandra Village at Ward No 06 b Improvements to Suvarana Mahotsava Play Ground on Vidyaranyapura Main road at Ward No 09 c Improvements to playgrounds at Ward No 11 Kuvempunagarad Developmental Works to Play ground stadium in Ward No 05 Jakkur e Developmental works to Play ground Stadium Sahakaranagara Ward No 08 Kodigehalli

ABSTRACT

Sl No	Description of Work	Unit	As per Shedule -B			Previous Measurement		Present Measurement			Up to date	
			Qty	Rate	Amount	Qty	Amount	Qty	Rate in Rs.	Amount	Qty	Amount
1	Clearing and grubbing road land including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications. I. By Manual Means: A. In area of light jungle. MORTH Specification No. 201. as per direction of Engineer-in-charge.	Ha	7.76	55427.65	430118.56	1.77	98272.95	0.37	55427.65	20297.61	2.14	118570.55
2	Excavation for road way in all types of soil by mechanical means including cutting and pushing the earth to site of embankment including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections complete as per specifications. MORTH Specification No. 301. as per direction of Engineer-in-charge.	Cum	35862.98	198.91	7133505.35	13626.56	2710459.85	7863.14	198.91	1564057.97	21489.71	4274517.82
3	Earthwork excavation and forming in embankment by manual means in hard soil (When earth is taken from bank cutting or from borrow pits) including breaking of clods, spreading to required line and level, forming, and cost of all labour complete as per specifications. (excluding watering and compaction of earth) (with all lead and lift) MORTH / Chapter 3as per direction of Engineer-in-charge	Cum	1861.66	178.04	331449.95	0.00	0.00		178.04	0.00	0.00	0.00
4	Removing stumps, tree roots, roots of bamboo cluster etc., with 8.2.2 girth above 1.50 m and upto 3.00 m including excavation, stacking materials neatly and levelling area etc., complete with lead upto 50 m and all lifts. (WRD 2014-2015, Page 148, Item No WRD 8.2.2)as per direction of Engineer-in-charge.	Each	4750.00	92.40	438900.00	0.00	0.00		92.40	0.00	0.00	0.00
5	Construction of embankment with approved material Gravel /Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density. MORTH Specification No. 305.as per direction of Engineer-in-charge .	Cum	19749.63	342.47	6763655.79	11309.00	3872993.23	2507.00	342.47	858572.29	13816.00	4731565.52
6	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete.as per direction of Engineer-in-charge.	Nos	2885.00	412.78	1190870.30	0.00	0.00	2225.00	412.78	918435.50	2225.00	918435.50
7	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. - do - 7.5 cms thickas per direction of Engineer-	Sqm	2667.00	712.15	1899304.05	0.00	0.00		712.15	0.00	0.00	0.00
8	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180Kg, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2as per direction of Engineer-in-charge.	Cum	752.86	5519.18	4155169.85	72.55	400398.57	517.54	5519.18	2856377.10	590.08	3256775.67

9	Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1 : 6 stone hammerd dressed in courses not less than 20 ems high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 as per direction of Engineer-in-charge.	Cum	1379.80	4748.06	6551373.19	554.72	2633820.10	436.55	4748.06	2072760.84	991.2	4706580.95
10	Providing and laying in position plain cement concrete of mix 1:2:4 with cement@ 240Kg, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per direction of Engineer-in-charge.	Cum	242.51	6170.09	1496308.53	40.72	251242.98	60.82	6170.09	375260.25	101.54	626503.23
11	Back filling behind abutment, wing wall and return wall complete as per drawing and Technical Specification complete as per specifications. A. Granular material MORTH Specification No. 2204as per direction of Engineer-in-charge.	Cum	413.08	594.22	245460.40	25.68	31267.86	26.94	594.22	16008.29	52.62	31267.86
12	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint as per direction of Engineer-in-charge.	Sqm	6942.30	747.31	5188050.21	1737.78	1298656.64	1023.99	747.31	765237.97	2761.77	2063894.60
13	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1 :2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 ems. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) as per direction of Engineer-in-charge.	M	4098.22	928.75	3806221.83	1075.20	998592.00	672.40	928.75	624491.50	1747.60	1623083.50
14	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint as per direction of Engineer-in-charge.	M	8646.00	367.42	3176713.32	2003.80	736236.20	1339.90	367.42	492306.06	3343.70	1228542.25
15	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification.as per direction of Engineer-in-charge.	Sqm	67.20	3327.16	223585.15	0.00	0.00		3327.16	0.00	0.00	0.00

16	Providing and laying in position reinforced cement concrete of design mix M25 with OPC cement @ 340Kg, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, Untles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, .pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1,4.6as per direction of Engineer-in-charge.	Cum	428.47	7220.18	3093630.52	0.00	0.00	393.10	7220.18	2838223.88	393.10	2838223.88
17	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater dubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.as per direction of	Cum	2112.00	102.06	215550.72	0.00	0.00	1842.36	102.06	188031.26	1842.36	188031.26
18	Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 as per direction of Engineer-in-charge.	Sqm	99.00	942.35	93292.65	0.00	0.00	60.68	942.35	57181.80	60.68	57181.80
19	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.	Sqm	2300.70	68.04	156539.63	0.00	0.00	1520.58	68.04	103460.26	1520.58	103460.26
20	Providing and laying plain / reinforced cement concrete for side drains using M20 nominal mix concrete with OPC cement at 300 Kg. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500,1700,2200. - do - Wall & Bottom thickness 15cm	Cum	118.57	7867.69	932872.00	0.00	0.00	148.21	7867.69	1166090.00	148.21	1166090.00
	Above 125%							88.44	7423.71	656543.63	88.44	656543.63
21	Providing TMT steel reinforcement for RCC works including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. - do - TMT bars Fe 500.	Tonne	29.01	68728.34	1993809.14	0.00	0.00	36.26	68728.34	2492261.43	36.26	2492261.43
	Above 125%							2.10	68728.34	144660.44	2.10	144660.44
22	Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 50mm dia nominal bore with fittings (medium grade weight 5.24kg/M) B class including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications.	M	1480.40	578.34	856174.54	0.00	0.00		578.34	0.00	0.00	0.00
23	Fabrication supplying and erecting M.S. tubular trusses of all spans as per approved drawing & design with prefabricated steel applications using quality material and are durable, reliable and corrosion and abrasion resistant. Welding shall confirm to latest structural welding code. Quality shall be on various parameters like shape, size, design gauge ar.d polish. The entire trusses is anchored in RCC column by using 4 nos of M.S. anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting, straightening, placing in position of M.S. pipes and welding wherever necessary and applying one coat of redoxide primer coat to all the members including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, with all lead and lift, transportation, letc., complete as per specification.	Kg	1377.00	124.74	171766.98	0.00	0.00	1721.25	124.74	214708.73	1721.25	214708.73

	Above 12% Fabrication supplying and erecting Basket over Prelaminated board 18 mm thick of approved lamination on both side fixed over the pillar, as per direction of Engineer-in-charge.	Sqm	8.05	799.47	8435.73	0.00	0.00		799.47	0.00	0.00	0.00
5	Wire mesh surround the ground for wind protection to play area, with the resistance to flow of wind upto 70 to 80% and visibility of upto 30%. The gauge of the fiber is of about 0.25mm, the fibers should be tied firmly to the provided Poles (excluding the rate of poles) such that the mesh stands stiff as per direction of Engineer-in-charge.	Sqm	2223.00	365.15	811728.45	0.00	0.00		365.15	0.00	0.00	0.00
6	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. ii) Dismantling Brick I Tile work. MORTH Specification No. 202KSRRB M200-14.2. -do- Dismantling brick/Tile work B.In cement mortar. as per direction of Engineer-in-charge ---- All terms and conditions are as per Tender Document	Cum	16.32	276.70	4515.74	0.00	0.00		276.70	0.00	0.00	0.00
7	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. KSRRB M200-17.2. -do- v)Steel work in all types of Sections upto a Height of 5 m above plinth level excluding Cutting of Rivet- B. Excluding dismembering.as per direction of Engineer-in-charge.	Tonne	4.52	1029.67	4654.11	0.00	0.00		1029.67	0.00	0.00	0.00
	Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. KSRRB M200-17.2. -do- v)Steel work in all types of Sections upto a Height of 5 m above plinth level excluding Cutting of Rivet- B. Excluding dismembering. as per direction of Engineer-in-charge.	Cum	48.24	202.99	9792.24	0.00	0.00		202.99	0.00	0.00	0.00
	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. complete, all as per specification and direction of the Engineer-in-Charge including the cost and conveyance of all materials, cost of labour for all items of work, equipment and other incidental charges for the successful completion of the work.as per direction of Engineer-in-charge.	Cum	175.14	214.33	37537.76	0.00	0.00		214.33	0.00	0.00	0.00
	Providing and Injecting chemical emulsion for Pre-constructional Anti-termite Treatment by supplying and spraying chemicals chloropyriphos emulsifiable concentrates of 20% concentration, as per IS:6313-1981 and in accordance with manufacturer's specifications with lead and lift for all materials, creating a chemical barrier under and alround the column pits, wall trenches, basement excavations, top surface of plinth, junction of wall and floor, along the external perimeter of building, expansion joints, surroundings of pipes and conduits etc., complete including cost and conveyance of all materials and other incidental charges and as per the directions of the Engineer-in-Charge. (Plinth area of the building at the ground floor only shall be measured).as per direction of Engineer-in-charge.	Sqm	151.12	116.60	17620.59	0.00	0.00		116.60	0.00	0.00	0.00

31	0308 4.2.3: Providing and laying in position reinforced cement concrete of design mix M30, with 20mm and down size graded granite metal coarse aggregates and fine aggregates, with superplastisiser confirming to IS 9103:1999 Reaffirmed 2004, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached pilasters,columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window Sills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. and directions of Engineer-in-charge for the successful completion of the work. (excluding centering & shuttering works, cost of steel & fabrication charges).as per direction of Engineer-in-charge.	Cum	33.44	6816.47	227942.76	0.00	0.00		6816.47	0.00	0.00	0.00
32	Providing and removing centering, shuttering. strutting, proping etc. and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications.as per direction of Engineer-in-charge.	Sqm	77.22	261.95	20227.78	0.00	0.00		261.95	0.00	0.00	0.00
33	Providing and removing centering, shuttering. strutting, proping etc. and removal of form work for columns, pillars, piers, abutments, posts and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specifications.as per direction of Engineer-in-charge.	Sqm	124.61	290.30	36174.28	0.00	0.00		290.30	0.00	0.00	0.00
34	Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 with solid concrete blocks of size 400x200x200mm as per direction of Engineer-in-charge.	Sqm	132.48	1062.56	140767.95	0.00	0.00	32.20	1062.56	34214.43	32.20	34214.43
35	Providing 12mm thick plain plastering in single coat to internal ceiling & RC surfaces in cement mortar 1:4 (1 cement : 4 fine sand) including providing & removing necessary scaffolding, rounding of corners wherever required, smooth rendering with lime, curing etc. including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer.	Sqm	111.64	201.85	22534.53	0.00	0.00		201.85	0.00	0.00	0.00
36	Providing 15mm thick plain plastering in single coat to external masonry surfaces, in cement mortar 1:4 (1 cement : 4 fine sand) including providing & mixing water proofing compound of approved quality and make as admixture to cement mortar as per manufacturer's specifications, providing & removing necessary scaffolding, rounding of corners wherever required, sponge finishing, curing etc. including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., as per direction of Engineer-in-charge.	Sqm	808.49	222.26	179694.99	0.00	0.00	32.20	222.26	7156.77	32.20	7156.77
37	Providing 15mm thick rough plastering in single coat to internal / external surfaces, in cement mortar 1:4 (1 cement : 4 fine sand) including finishing rough to receive tiling work, providing & removing necessary scaffolding, curing etc. including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., as per direction of Engineer-in-charge.	Sqm	31.92	200.72	6406.98	0.00	0.00		200.72	0.00	0.00	0.00

	KSRB 15-15.1 : Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.. with primer Internal Masonry wall surfaces as per direction of Engineer-in-charge.	Sqm	485.68	144.02	69947.63	0.00	0.00		144.02	0.00	0.00	0.00
39	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer as per direction of Engineer-in-charge.	Sqm	170.47	95.26	16238.97	0.00	0.00		95.26	0.00	0.00	0.00
40	Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications. KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.as per direction of Engineer-in-charge.	Sqm	9.00	125.87	1132.83	0.00	0.00		125.87	0.00	0.00	0.00
41	KSRB 14.14-5: Providing Ceramic tiles of approved make,shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1 :3 mix, flush pointing with white cement using colour pigment , including cost of materials, labour, curing, complete as per specifications.Specification No. KBS for Ceramic Tiles 30cm x 60cm 6mm thick, on a bed of 20mm thick as per direction of Engineer-in-charge.	Sqm	100.75	1335.85	134586.89	0.00	0.00		1335.85	0.00	0.00	0.00
42	Providing and fixing dadoing with Glazed tiles of approved size, make & sample and of 6mm minimum thick of first quality, conforming to IS specifications, set in cement mortar 1:3 (1 cement : 3 fine sand) 10mm thick with a thin coat of cement slurry on the rough plastered surfaces including finishing the joints with matching coloured cement, oxalic acid wash, waxing, curing etc. with all lead and lift etc. complete as per the directions of the Engineer-in-charge including cost & conveyance of all materials, cost of labour for all items of work, equipment and all other incidental charges for the successful completion of the work.as per direction of Engineer-in-charge.	Sqm	31.92	1215.65	38803.55	0.00	0.00		1215.65	0.00	0.00	0.00
43	Providing and fixing Vitrified glazed tiles of approved make, quality & colour of size 600 x 600 x 1 Omm thick fixed on bed of 12mm thick cement mortar for flooring, skirting and jointed with neat cement slurry mixed with pigment to mach shade of tiles, including providing spacers at required interval and removing stains, including cost of all mateirals, mortar, labour, etc., Complete as per specification.as per direction of Engineer-in-charge.	Sqm	90.48	1261.01	114096.18	0.00	0.00		1261.01	0.00	0.00	0.00
44	Providing and laying pattern flooring for staircase treads and risers using the combination of 20mm thick ruby red granite @ 66%,20 mm thick grey granite @ 20%, 20mm thick, 20mm thick black granite 14%. The granite materials are laid on existing bed of CM 1:3 20mm thick pointed with colour pigment, including full rounding for nosing, flaming the ruby red granite for 50 mm wide curing etc., complete as per specification.as per direction of Engineer-in-charge.	Sqm	7.56	6491.02	49072.11	0.00	0.00		6491.02	0.00	0.00	0.00

45	Providing Honne wood frames for doors, wrought, framed or assembled including suitable plaster grooves (excluding cost of concrete and side clamps) including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer. (samples to be got approved before execution). as per direction of Engineer-in-charge.	Cum	0.10	116637.57	11663.76	0.00	0.00		116637.57	0.00	0.00	0.00
46	Fixing of Door frames in an existing opening including embedding frame in floor and walls after cutting masonry for embedding holdfasts including providing & fixing 3/4 of MS hold fasts of size 200x20x3mm for each side and fixed to the frame and embeded with PCC 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size), painting two coats of coal tar to sides of frames, making good the damages to walls & floor as required and disposal of debris including cost of materials, labour, HOM of machineries complete as per direction of Engineer-in-charge.	Nos	2.00	1195.24	2390.48	0.00	0.00		1195.24	0.00	0.00	0.00
47	Providing and fixing in position shutters for doors made out of Honne wood styles and rails of 40mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 18mm thick of exterior grade plain particle board including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34, 9.26.3 as per direction of Engineer-in-charge.	Sqm	4.62	3876.01	17907.17	0.00	0.00		3876.01	0.00	0.00	0.00
48	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick, bottom section weight 0.695 kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg./m; shutter outer side 40mmx18mm, 1.25mm.thick weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1 mm thick, weight 0.469 kg/m. the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; and providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading aluminium sections including cutting to required length, joints mitred subdividing the frame tenonned and rivetted in the assembled frame stiffened with end clips at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections pretreated for removal of any Specification No. KBS. using aluminium section anodized to 12 - 15 microns.as per direction of Engineer-in-charge.	Sqm	9.68	3667.36	35500.04	0.00	0.00		3667.36	0.00	0.00	0.00
49	Providing and fixing MS grill work for windows and ventilators weighing 21 Kg./ sqm. using MS flats or MS square bars or combination of MS flats and square bars as per approved design, drawing including cutting steel sections and welding the same to required pattern with a coat red lead primer & two coats synthetic enamel paint, cost of materials, fixtures, labour and HOM of machinery complete as per technical specification and as directed by the Engineer-in-Charge of work.with all lead & lift, loading & unloading and all other incidental charges etc. as per direction of Engineer-in-charge.	Kg	245.70	88.45	21732.17	0.00	0.00		88.45	0.00	0.00	0.00

	[illegible] between top & bottom line, in areas of mid section is provided with 50x50x6mm equal single angle for vertical and inclined members and at supporting ends 40x40x5mm single angle is provided. All the members are welded together with 6mm gusset plate as per Drawing No.CBS/ SD/K-Mantap/9/MND/97. The entire truss is anchored in RCC column by using 4 Nos. of M.S. anchor bolts at each support, with 10mm thick base plate and shoe plate.The work includes cutting, straightening, placing in position of M.S angle and wleding wherever necessary, and applying one coat of red oxide primer coat to all the members including cost of all materials, labour charges, & hire charges of machineries for cutting, welding, grinding & erection equipments, etc., complete as per specification.as per direction of Engineer-in-charge.	Kg	10530.00	132.68	1397120.40	0.00	0.00		132.68	0.00	0.00	0.00
51	Providing and fixing 6mm Bronze Multi wall poly carbonate sheet for Tubular structure. The work including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipment, complete as per specification.as per direction of Engineer-in-charge.	Sqm	175.50	2823.66	495552.33	0.00	0.00	197.40	2823.66	557390.48	197.40	557390.48
52	Providing and fixing 1 mm thick M.S. sheet sliding shutters with frame and diagonal braces of 40x40x6 mm angle Iron 3.15mm thick M.S. Gusset plates at junctions and corners, 25mm dia pulley, 40x40x6 mm angles and T iron guide rail top and bottom respectively with handles, stoppers and locking arrangements etc., including applying a priming coat of red lead paint cost of materials, labour, HOM of machinery complete as per specifications. 1 double leaf door of size 2.4x2.4m Specification No. KBS 7.8 I 7.12 as per direction of Engineer-in-charge.	Sqm	18.00	3209.22	57765.96	0.00	0.00		3209.22	0.00	0.00	0.00
53	Providing, fabricating, assembling and fixing in position aluminium partitions using sections in combination of plain, single grove and double grove as per requirements for the frames of overall size 101.6mm x 44.45mm, 3.18mm.thick having section weight, plain sections 2.40kg/m single grove section 2.541 kg/m. and double grove section 2.683 kg/m and bottom bottom member 114.3 mm x 44.45 mm 3.18 mm thick and 2.6 46 kg/m; aluminium louvres of size 77.6mmx27.6mm 1.7mm. thick section weight 0.483kg/m; bottom portions provided with 12mm. thick pre laminated sheet both side of approved colour lamination exterior grade; aluminium sections of mat finish or glossy finish using section, spacing of vertical member shall not exceed 0.6 m. c to c; sections are cut to the required lengths, joints mitered and corners grinded subdividing frames tennoned and iveted to the frames, the assembled frame should be stiffened with corner angles stripped and fixed with screws, rawl plugs and teak woodgutties to R.C.C.columns or masonry on sides, R.C.C. lintels or beamsat top and floor at bottom, including cutting chistling and making goodwith cement mortar to match the surface, providing and fixing bottompanel filled with the materials to a height of 0.9m. from floor level; and5.5mm. thick plain glass for middle portion viz. 0.9m. to 2.13 m. and toppanel with lower sections, the glass and	Sqm	19.80	5364.95	106226.01	0.00	0.00		5364.95	0.00	0.00	0.00
54	Over Head Synthetic Tanks - Providing, Placing on Terrace, Polyethylene storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diametre for inlet,outlet and over flwo pipes including cost of all materials, labour, transport charges, HOM of euipments and testing complete as per specifications for 2000 Litres Capcity including cost of all materials, formwork, labour charges, HOM of Machineries, loading, unloading ,with all lead and lifts etc., compelte & as per specification and as directed by Engineer.	Nos	1.00	9501.58	9501.58	0.00	0.00		9501.58	0.00	0.00	0.00
55	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 M spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (Concealed work including cutting chases and good the walls etc.) 25mm nominal OD pipesas per direction of Engineer-in-charge.	M	27.00	283.50	7654.50	0.00	0.00		283.50	0.00	0.00	0.00

56	Providing and fixing white vitreous china clay, flat back wash basin [illegible] a single 15mm C.P brass pillar tap with C.I / M.S brackets, 32 mm C.P. brass [illegible] standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
57	Providing and fixing in position brass bib cock of approved quality 25mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.as per direction of Engineer-in-charge.	Nos	8.00	308.45	2467.60	0.00	0.00		308.45	0.00	0.00	0.00
58	Sluice/ gate Valves: Providing and Fixing of Gun Metal wheel Sluice Valve for the Distribution Mains of Water Supply Scheme, Conforming to Isand of approved make as the directions including cost of material, labour, lead complete for 25 mm dia pipe lines as per direction of Engineer-in-charge.	Nos	4.00	572.67	2290.68	0.00	0.00		572.67	0.00	0.00	0.00
59	Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C. I I M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11as per direction of Engineer-in-charge.	Nos	2.00	5817.42	11634.84	0.00	0.00		5817.42	0.00	0.00	0.00
60	Providing white vitreous china clay Indian pattern squatting urinals with white glazed foot rests of approved quality and make conforming to ISI specifications and fixing in Position with M-15 as directed of size 50.8 ems X 38 ems X 10.16 ems -A Grade (Rate includes cost of all materials and conveyance to work spot).as per direction of Engineer-in-charge.	Nos	2.00	1099.98	2199.96	0.00	0.00		1099.98	0.00	0.00	0.00
61	Providing and fixing 600x450mm bevellead edge mirror of superior glass with 6mm hard board backing and fixed to wooden cleats with C.P screws, washers, including cost of materials, labour complete as per specifications.as per direction of Engineer-in-charge.	Nos	2.00	1418.63	2837.26	0.00	0.00		1418.63	0.00	0.00	0.00
62	Providing and fixing C.P. brass towel rail 740mm length, 20mm dia with C.P brackets, fixed to wooden cleats with C.P. brass screws including cost of materials, labour complete as per specifications.as per direction of Engineer-in-charge.	Nos	2.00	887.92	1775.84	0.00	0.00		887.92	0.00	0.00	0.00
63	Providing and fixing sand cast iron soil waste single equal junction of required degree with access door 1 00x1 00x1 OOmm, insertion of rubber washers 3mm thick bolts and nuts, including cost of materials, labour, testing complete as per specifications. KBS 11-1.10.as per direction of Engineer-in-charge.	Nos	2.00	1145.34	2290.68	0.00	0.00		1145.34	0.00	0.00	0.00
64	Providing and fixing sand cast iron soil waste 152mm offsets for 100 mm pipes, including cost of materials, labour, testing complete as per specifications. Specification No. KBS 11.1.1 0as per direction of Engineer-in-charge.	Nos	6.00	819.88	4919.28	0.00	0.00		819.88	0.00	0.00	0.00
65	Providing stoneware gully trap of approved quality and make fixing in M-15 and plastering with CM 1:3 wherever necessary.(Rate includes cost of all materials, fixtures and lead). 10 cms x 10cmsas per direction of Engineer-in-charge.	Nos	4.00	209.79	839.16	0.00	0.00		209.79	0.00	0.00	0.00
66	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 Kg/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials, labour charges, HOM of acquirements and testing complete as per specifications. 140 mm dia as per direction of Engineer-in-	M	6.00	755.24	4531.44	0.00	0.00		755.24	0.00	0.00	0.00
67	Providing and fixing sand cast iron soil waste and vent pipes 100mm dia with spun yarn soaked in cement slurry and cement mortar 1:2 including cost of materials, labour, testing complete as per specifications. KBS 11-1.10 as per direction of Engineer-in-charge.	M	20.00	798.34	15966.80	0.00	0.00		798.34	0.00	0.00	0.00

68	Providing and laying in position to required level or slope 150 mm internal diameter salt glazed stoneware pipes grade A and jointing with stiff mixture of cement mortar in proportion of 1:1, testing of pipes and joints,including cost of materials, labour charges complete as per specifications. Specification No. KBS 12.2.5 I 12.7 as per direction of Engineer-in-charge.	M	100.00	400.30	40030.00	0.00	0.00		0.00	0.00	0.00
69	Constructing brick masonry inspection chamber 455x610mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 600 x 600 x 450 mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1 :3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS as per direction of Engineer-in-charge.	Nos	4.00	10153.84	40615.36	0.00	0.00		10153.84	0.00	0.00	0.00
70	Constructing brick masonry circular type manhole 1.22 m internal dia at bottom 1.68 m deep and 0.56m dia at top, with table moulded and non modular bricks of class designati on 50 in cement mortar 1 :4, inside cement plaster 12mm thick with cement mortar 1 :3, finished with a floating coat of neat cement, foundation concrete M 1 0 using 40mm and down size granite metal and making necessary channel in cement concrete M 15 with 20mm and down size granite metal, finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diameter confirming to IS :12592, total weight length of cover and frame to be not less than 182 kg, fixed in cement concrete M 15 20mm and down size broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM of machineries complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid separately) Specification No. KBS 12.4 11.40 as per direction of Engineer-in-charge.	Nos	3.00	29624.62	88873.86	0.00	0.00		29624.62	0.00	0.00	0.00
71	Providing 20mm square M.S footrest and fixing in manhole with M 1 0 cement concrete block of 20x20x1 Ocms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 12.4.6 as per direction of Engineer-in-charge.	Nos	18.00	278.96	5021.28	0.00	0.00		278.96	0.00	0.00	0.00
72	Making connection of drain or sewer line of size 100 to 230mm external dia with existing manhole including breaking into and making good the walls, floors with cement concrete M 15 with 20mm and downsize granite metal, cement plastered on both sides of mix 1 :3, finished with a floating coat of neat cement, and making necessary channels for the drain, including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS as per direction of Engineer-in-charge.	Nos	1.00	1966.36	1966.36	0.00	0.00		1966.36	0.00	0.00	0.00
73	Providing 20mm thick cement plaster in single coat with cement mortar 1 :3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specification.KSRB 15-4.7 Extra for providing and mixing waterproofing compound in cement plaster for brick masonry work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1 :4, 20mm thick cost of materials complete as per specifications.as per direction of Engineer-in-charge.	Sqm	29.28	305.05	8931.86	0.00	0.00		305.05	0.00	0.00	0.00

	with suitable size bends, metal/PVC junction boxes adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures. run with 18SWG GI fish wire wherever necessary(2/2) b) 25mm dia 2mm thick as per direction of Engineer-in-charge.	M	77.80	59.85	4656.33	0.00	0.00		59.85	0.00	0.00	0.00
75	Groove cutting in the wall supplying ....dia 2mm/2.5mm thick heavy gauge PVC Conduit Pipe with bends, metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary.(2/3) b) 25mm dia 2mm thick (P-2, I-3b) as per direction of Engineer-in-charge.	tonne	88.00	60.90	5359.20	0.00	0.00		60.90	0.00	0.00	0.00
76	Supply and fixing of metal fan hook box as per direction of Engineer-in-charge.	Each	8.00	145.95	1167.60	0.00	0.00		145.95	0.00	0.00	0.00
77	Supplying and flush mounting teak wooden box without front plank made of not less than 12mm thick wood, after due groove cutting, necessary masonry patch work complete. (3/6) d) 8"x6"x3" as per direction of Engineer-in-charge.	Each	8.00	71.40	571.20	0.00	0.00		71.40	0.00	0.00	0.00
78	Supplying and wiring adopting loop system in existing PVC Conduit /casing capping using copper PVC insulated multi strand 2x1.5Sqmm copper wire with a 6Amps flush type SP control switch shall be fixed on the existing plastic sheet/ gang box, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block. complete for each outlet. (3/8) I) Point wiring using Group A Materials a) Short point up to 3M from tapping point to out let via switch as per direction of Engineer-in-charge.	Each	32.00	257.25	8232.00	0.00	0.00		257.25	0.00	0.00	0.00
79	Supply and fixing of bakelite D.P/Socket/ switch with/without neon indicator over existing wood board or flush mounting in plastic plates/nitches.(6/14)I) Using Group 'A' Material. I) Using Group 'A' Material. a) 32Amps Flush/project type DP switch as per direction of Engineer-in-charge.	Each	32.00	196.35	6283.20	0.00	0.00		196.35	0.00	0.00	0.00
80	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multistrand Copper conductor single core cable in open or concealed system of wiring .(9/20) I) Group A Materials. I) Group A Materials. b) 1.5 sqmm as per direction of Engineer-in-charge.	M	663.20	15.75	10445.40	0.00	0.00		15.75	0.00	0.00	0.00
81	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulators etc., and fixing on existing wooden or metal box using N.F. screws as per direction of Engineer-in-charge.	Sq.Cm	2400.00	0.26	624.00	0.00	0.00		0.26	0.00	0.00	0.00
82	Supply and fixing of 230 volts CFL lamp holder as per direction of Engineer-in-charge.	Each	8.00	87.15	697.20	0.00	0.00		87.15	0.00	0.00	0.00
83	Supplying and fixing cast Alluminium round or oblong type bulk head fitting with GI wire guard, glass cover with 15Watts 230V CFL lamp as required. a) Group 'A' as per direction of Engineer-in-charge.are as per Tender Document	Each	8.00	2648.10	21184.80	0.00	0.00		2648.10	0.00	0.00	0.00
84	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, and 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system and as per technical data approved. (23/23) I) 56" Sweep (1400mm) a) Regular model (Khaitan, Crompton Greaves, Orient, Polar, Bajaj, Havells/Usha) I) 56" Sweep (1400mm). .Item No 9.3.3, as per direction of Engineer-in-charge.	Each	6.00	2625.00	15750.00	0.00	0.00		2625.00	0.00	0.00	0.00
85	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers etc., complete.(30/3) c) 63 Amps as per direction of Engineer-in-charge.	Each	8.00	245.70	1965.60	0.00	0.00		245.70	0.00	0.00	0.00
86	Digging of trench of 0.6m deep x 0.50 M wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7) (68/12) a) In hard soil as per direction of Engineer-in-charge.	M	8.00	81.90	655.20	0.00	0.00		81.90	0.00	0.00	0.00

88	Supplying and fixing earthing for providing conduits, I.E. subouts and other equipments on the wall board using 25mm dia 2.90mm thick GI pipe 2.5 M long buried in a pit . . The pit should be filled with equal proprotion of salt and charcoal 150mm alround the pipe to complete depth. The connection from the pipe to the conduit etc, is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts; washers and checkouts etc, the pipe shall have 16 through holes of 122 mm dia Supplying as per direction of Engineer-in-charge.	Each	2.00	2863.35	5726.70	0.00	0.00		2863.35	0.00	0.00	0.00
89	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate.Is 3854 and IS 1293. Item No 9.2.1, as per direction of Engineer-in-charge.	Each	6.00	300.30	1801.80	0.00	0.00		300.30	0.00	0.00	0.00
90	Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades complete for light duty suitable for operate on 230V 50Hz, AC Supply.Item No 9.2.1, as per direction of Engineer-in-charge.	Each	2.00	3836.76	7673.52	0.00	0.00		3836.76	0.00	0.00	0.00
	Extra Items											
E1	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,complete.	Sqm						560.40	2453.85	1375137.54	560.40	1375137.54
E2	Fabricating, providing and erecting in position of MS Hot Dip Galvanised Sq. Hallow Poles of 132 X 132 Heavy gauge of length 3000mm with MS. Hot dip Galvanised grill work as per approved design and drawing of chief architect. Using 12 X 75mm galvanised flat for alround frame and 20 X 20mm galvanised forged design with square for vertical at 150mm c/c as shown in the drawing including providing forged ornamental arrowhead at top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery andincidental charges for the successful completion of the work as per the direction of the Engineer-in-charge of the work.	Sqm						108.57	9601.20	1042402.28	108.57	1042402.28
E3	Fabricating, providing and erecting in position Hot dip galvanised Gate. Using 72 X 72 X 4.8mm Sq. GI Pipe Frame with Top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanised sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot dip galvanised forged ornamental design in between sq. rods and heads at top, middle and bottom. Intermediate supports of 75X12 mm and 50X6 mm arch bend to hot dip galvanised flats. The work is inclusive of throughing GI flat GI sq. rods, placing, welding all the joints including grinding, finishing metal putty, painting two coats enamel painting. The rate is inclusive of all materials like GI sq. pipe, GI sq. rods, GI forged designs etc., heavy duty hinges are made out of 75mm solid sq. block assembled with 20mm dia bearing in three places for each flop. Heavy Duty Locking arrangements at tow places including cost of labour, painting, erecting charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineer-in-charge of the work.	Sqm						28.32	13098.75	370956.60	28.32	370956.60

E4	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken ... and down size & with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.	Cum										
E5	KSRB 14.6 : Providing and laying heavy duty cobble stones interlock pavers, 60mm thick using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM complete as per specifications.	Sqm						419.00	1171.99	491057.53	419.00	491057.53
E6	Providing and fixing for flooring 20mm thick sadarhalli grey granite in CM 1:4 roportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of including cost of all materials, mortar, labour, curing etc., complete as per specification. minimum width of 900mm	Sqm						131.69	2202.63	290063.95	131.69	290063.95
E7	KSRB 14.4 : Providing and laying flooring and steps fine dressed granite stone slabs 40 mm thick on cement mortar bed 1:6, 25 mm thick, and pointed with cement mortar 1:3 over existing cement concrete bed, including cost of materials, mortar, labour, curing complete as per specifications.	Sqm						201.33	3607.23	726244.22	201.33	726244.22
E8	Providing half nosing for 40mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM etc., complete as per	m						273.30	400.68	109505.84	273.30	109505.84
E9	Providing groove cutting for width of 5mm to 10mm and depth 80mm- 100mm including cost of cutting machine, generator & HOM, including cost of blade,coolant etc., including cleaning of groove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.	m						1183.50	150.26	177826.79	1183.50	177826.79
E10	Providing and fixing M.S. Hand railing for Balcony/Staircase etc., with 50mm dia. M.S. hollow pipe of 14 gauge, welded to 20mmx20mm M.S. square rod placed vertically, spaced at 100mm at regular intervals of 600mm. These vertical rods laterally tied to 3 horizontal rods spaced at equal interval. These assembly is fixed to concrete by using expansion bolts and welding the same to reinforcement bars and making good the surface. All the joints and sections hould be cut to length, welded and grinded wherever necessary etc., complete . The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and drawing.	Sqm						163.50	3160.92	516810.42	163.50	516810.42
	Total				**54995032.72**		**13031940.36**			**25848449.32**		**38864381.40**

CERTIFICATE

1 Certified that the work done is satisfactorily.

2 There is no departmental issues by BBMP

Contractor

NEWZEN CONSULTANT BANGALORE PMC

Assistant Engineer

Asst. Executive Engineer
Project Division,
Yelahanka Zone
Bangalore